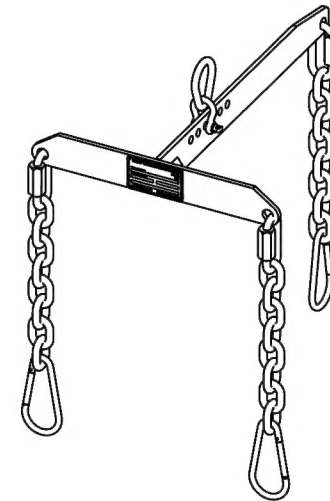
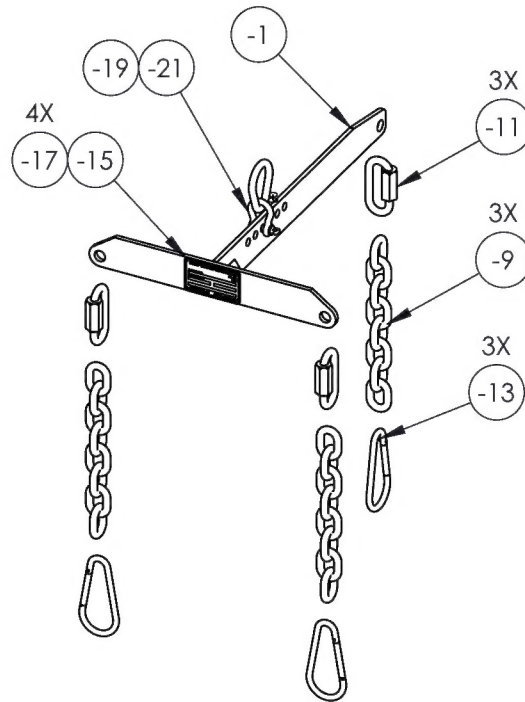


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-1 REDESIGNED SLING ASSEMBLY WAS TUBE IS BEAM -5 WITHOUT SLIDE ADJUSTER WELDMENT. -5 REDESIGNED SLING WAS TUBE WITH SLIDE ADJUSTER IS BEAM WITH 6 POSITION HOLES. -7 CH'D SLING DESIGN ADDED GUSSETS. ADDED -19 AND -21.	1/24/2014	RJC	DW



# NOTES:

1. THIS ASSY MAY BE USED COMMERCIALY ON AW109.
2. ENGRAVE -25 T/N, S/N, "MADE IN USA", "SWL 600 LBS".

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-1	1	WELDMENT			2
	1		-3		PLATE	1018	1/4 X 2 X 14-5/8	3
	1		-5		BEAM	1018	1/4 X 2 X 19	4
	2		-7		GUSSET	1018	1/4 X 2-1/8 X 2-1/8	5
		B/O	-9	3	CHAIN	STEEL	3/8 ( 8 LINKS) MCMaster-CARR #34245T6	1
		B/O	-11	3	QUICK LINK	STEEL	3/8 MCMaster-CARR #8947T18	1
		B/O	-13	3	CARABINER	STEEL	3/8 MCMaster-CARR #3933T16	1
		B/O	-15	1	RED BARN PLACARD	ALUMINUM	RB41009	1
		B/O	-17	4	#2 DRIVE SCREW	COATED STEEL	1/8 MCMaster-CARR #90081A074	1
		B/O	-19	1	PEAR SHAPED LINK	STEEL	Ø3/8 MCMaster-CARR #3567T31	1
		B/O	-21	1	SCREW PIN SHACKLE	STEEL	Ø5/16 MCMaster-CARR #3558T45	1
ASSY #	ASSY -1							



RED BARN MACHINE

TITLE  
TOOL ASSY, ENGINE LIFTING

DWG NO. RBW109-3600-30-101

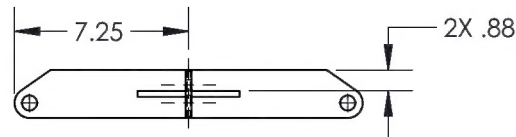
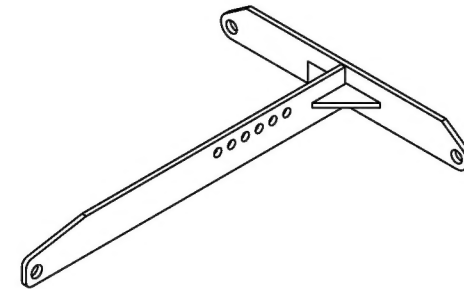
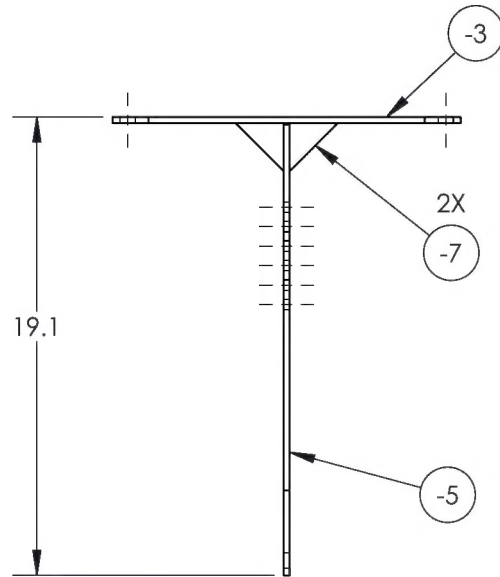
REV  
1

MAT'L		DRAWN BY: MARPET	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
.XXX ± .005	FRACTIONS ± 1/32	HEAT TREAT	
.XX ± .01	ANGLES ± 5°	FINISH	
.X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		AW109	
SCALE	1:10	DATE	5/23/2013
		SHEET 1 OF 6	

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# REVISIONS

REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-1 REDESIGNED SLING ASSEMBLY WAS TUBE IS BEAM -5 WITHOUT SLIDE ADJUSTER WELDMENT.	1/24/2014	RJC	DW



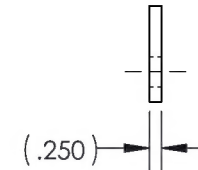
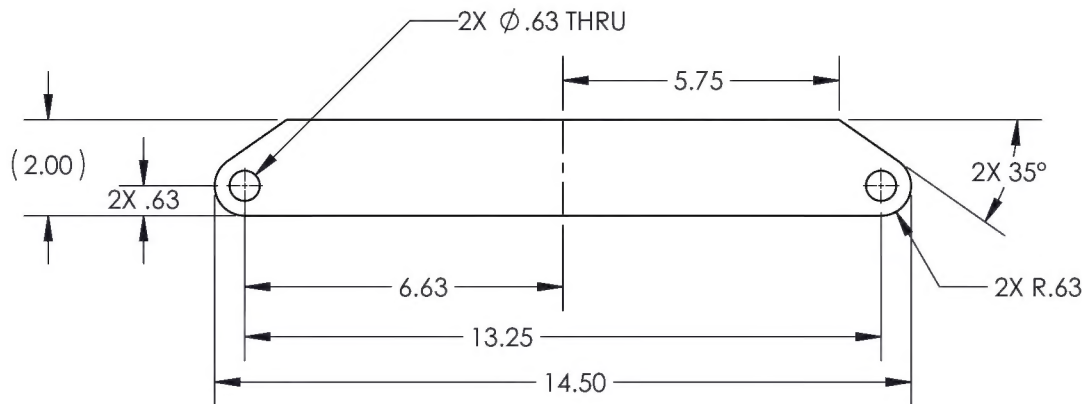
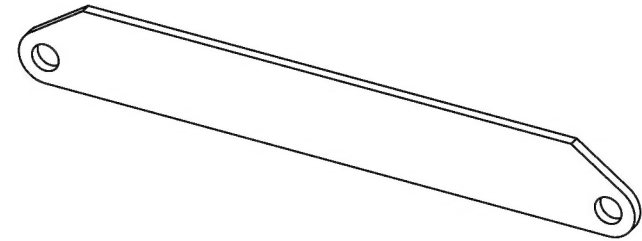
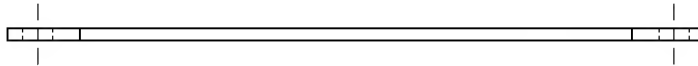
(-1)

WELDMENT

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> TOOL ASSY, ENGINE LIFTING	
<b>DWG NO.</b> RBW109-3600-30-101-1	<b>REV</b> 1
<b>MAT'L</b> UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	<b>DRAWN BY:</b> MARPET <b>APPROVED</b> <i>D Weil</i> <b>HEAT TREAT</b> <b>FINISH</b> POWDER COAT YELLOW <b>SPEC</b> FED #13538 <b>USED ON MODEL</b> AW109
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
<b>SCALE</b> 1:8	<b>DATE</b> 5/23/2013
<b>SHEET 2 OF 6</b>	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



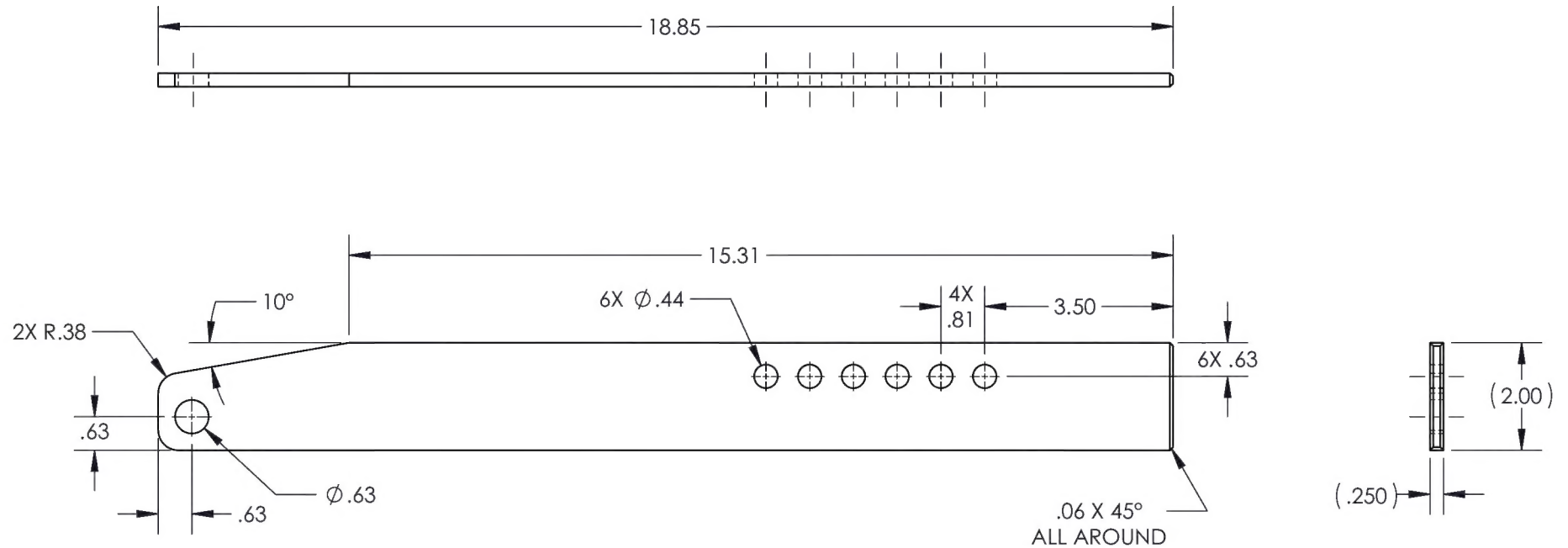
(-3)

PLATE

<b>RED BARN MACHINE</b>	
TITLE <b>TOOL ASSY, ENGINE LIFTING</b>	
DWG NO. <b>RBW109-3600-30-101-3</b>	REV <b>1</b>
MAT'L 1018	DRAWN BY: MARPET
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .005$	HEAT TREAT
.XX $\pm .01$	FINISH SEE -1 WELDMENT
.X $\pm .1$	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW109
SCALE 1:4	DATE 5/23/2013
SHEET 3 OF 6	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-5 REDESIGNED SLING WAS TUBE WITH SLIDE ADJUSTER IS BEAM WITH 6 POSITION HOLES.	1/24/2014	RJC	DW

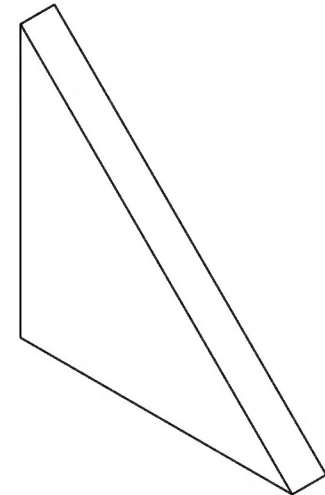
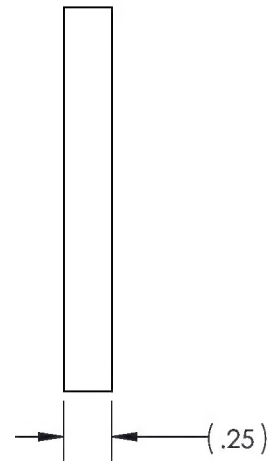
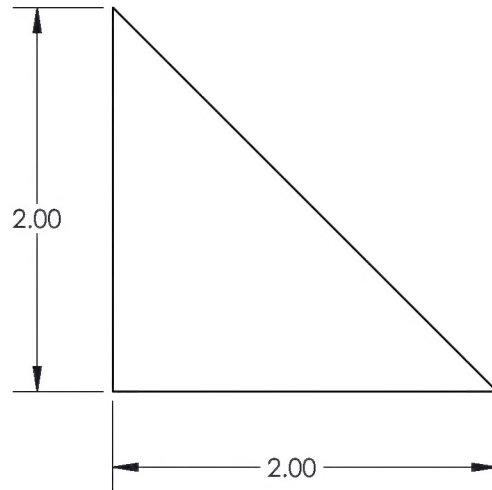


⑤  
BEAM


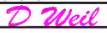
<b>RED BARN MACHINE</b>	
TITLE <b>TOOL ASSY, ENGINE LIFTING</b>	
DWG NO. <b>RBW109-3600-30-101-5</b>	REV <b>1</b>
MAT'L 1018	DRAWN BY: <b>CLOUGH</b>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -1 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW109
SCALE 1:3	DATE 1/24/2014
SHEET 4 OF 6	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	-7 CH'D SLING DESIGN ADDED GUSSETS.	1/24/2014	RJC	DW



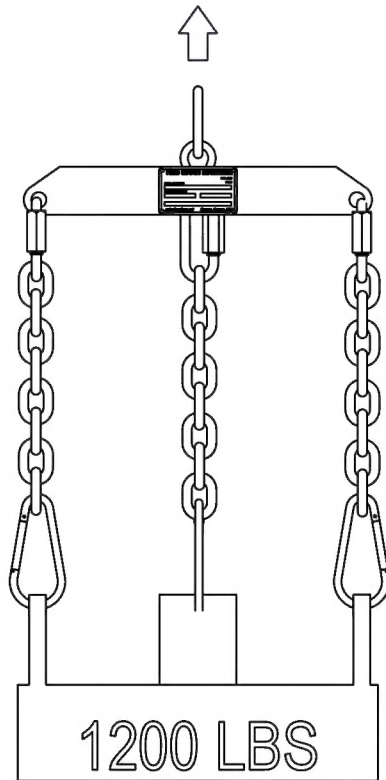
⑦  
GUSSET

 <b>RED BARN MACHINE</b>	
<b>TITLE</b> TOOL ASSY, ENGINE SLING	
<b>DWG NO.</b> RBW109-3600-30-101-7	<b>REV</b> <b>1</b>
<b>MAT'L</b> 1018	<b>DRAWN BY:</b> CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005      FRACTIONS ± 1/32 .XX ± .01      ANGLES ± 5° .X ± .1	<b>APPROVED</b> 
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>HEAT TREAT</b> FINISH SEE -1 WELDMENT <b>SPEC</b> USED ON MODEL AW109
<b>SCALE</b> 1:1	<b>DATE</b> 1/24/2014 <b>SHEET 5 OF 6</b>

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RED BARN MACHINE  
190 S. DANEBO AVE., EUGENE OR. 97402  
(541)344-9953; fax (541)344-3863  
e-mail; sales@redbarn.net

### FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE  
RBW109-3600-30-101, TOOL ASSY, ENGINE LIFTING. THIS  
ASSEMBLY IS DESIGNED EXCLUSIVELY FOR HOISTING AND  
INSTALLING/REMOVING ENGINE FOR AW109.  
THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE.  
REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED  
OF DAMAGE BEFORE USING!

### FIRST ARTICLE WEIGHT TEST


1. AFTER INSPECTION, PLACE SLING ASSEMBLY ON A  
OVERHEAD LIFTING DEVICE. ATTACH 3 CONNECTOR HOOKS  
TO AN APPROPRIATE TEST WEIGHT OF 1200 LBS.
2. LIFT WEIGHT FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING  
FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR  
STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: \_\_\_\_\_

TESTER: \_\_\_\_\_

S.N.: \_\_\_\_\_

DATE: \_\_\_\_\_

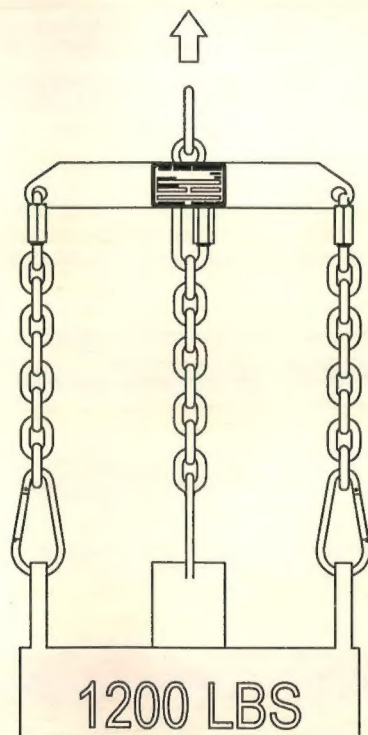
 <b>RED BARN MACHINE</b>	
TITLE TOOL ASSY, ENGINE LIFTING	
DWG NO. RBW109-3600-30-101	REV <b>1</b>
DATE 5/23/2013	SHEET 6 OF 6



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### FIRST ARTICLE WEIGHT TEST



INSPECTION & TESTING PROCEDURES FOR THE RBW109-3600-30-101, TOOL ASSY, ENGINE LIFTING. THIS ASSEMBLY IS DESIGNED EXCLUSIVELY FOR HOISTING AND INSTALLING/REMOVING ENGINE FOR AW109. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

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1. AFTER INSPECTION, PLACE SLING ASSEMBLY ON A OVERHEAD LIFTING DEVICE. ATTACH 3 CONNECTOR HOOKS TO AN APPROPRIATE TEST WEIGHT OF 1200 LBS.
2. LIFT WEIGHT FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: DAS 9 9-89

TESTER: DAS 9 9-89

S.N.: S105726

DATE: 18-03-30

DAS  
38  
9-89

 <b>RED BARN MACHINE</b>	
TITLE TOOL ASSY, ENGINE LIFTING	
DWG NO. RBW109-3600-30-101	REV 1
DATE 5/23/2013	SHEET 6 OF 6